

## BELT AND SIDE IMPACT INFLATOR

## ABSTRACT OF THE DISCLOSURE

The present invention provides an airbelt inflator (10) designed  
5 primarily for supplying and directing gas from the combustion of gas generant  
materials into a vehicle airbelt. Inflator (10) includes a substantially cylindrical  
inflator body (12), having a first end (11) and a second end (13). A unique booster  
cup (22) is positioned within inflator body (12), and is preferably press fit with  
initiator body (15), suspending cup (22) within inflator body (12). Cup (22) facilitates  
10 consistent burn of the main propellant, imparting repeatable bag performance. A  
cylindrical mesh filter (38) is positioned in inflator body (12). A nozzle (36) is  
preferably positioned adjacent a disc (30). A variety of different nozzles giving  
inflator (10) varying gas output characteristics can be utilized with inflator (10), for  
example thrusting inflators or thrust-neutral inflators, depending on the operating  
15 requirements of the airbelt system. Booster cup (22) is sized such that it extends into  
inflator body (12), and abuts filter (38), thereby serving as a stand off or locator for  
filter (38), and providing a relatively snug packing arrangement for propellant tablets  
(28).